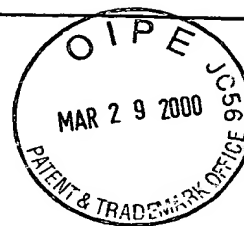


SEQUENCE LISTING



<110> Tucker, Kenneth D.
Tillmann, Ulrich F.

<120> MORAXELLA CATARRHALIS OMP21 POLYPEPTIDE, GENE SEQUENCE
AND USES THEREOF

<130> 7969-074

<140> 09/164,714

<141> 1998-10-01

<160> 21

<170> PatentIn Ver. 2.0

<210> 1

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<213> Moraxella catarrhalis

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Lys Ile Gly Gln Val Asp Ala Lys Gln Ile Asn Gly Lys Asn Thr Ala
20 25 30
Tyr Gly Ile Tyr Ala Gly Tyr Asn
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17

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gggtcaagtag acgccaagca aatcaacggt aagaacaccg cttatggtat ttatgcaggt 180
tataactttg accaaaattt tggcgtagaa cccgaatttg ttggttcaga cgccaaagaa 240
tttaatgcag gcgtgagtc tgtaaaaggt gatgtgaagt cttttggtgc ttatggcaca 300
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20 25 30
Gln Pro Tyr Val Gly Ala Lys Ile Gly Gln Val Asp Ala Lys Gln Ile
35 40 45
Asn Gly Lys Asn Thr Ala Tyr Gly Ile Tyr Ala Gly Tyr Asn Phe Asp
50 55 60
Gln Asn Phe Gly Val Glu Ala Glu Phe Val Gly Ser Asp Ala Lys Glu
65 70 75 80

Phe Asn Ala Gly Val Ser Pro Val Lys Gly Asp Val Lys Ser Phe Gly
 85 90 95
 Ala Tyr Gly Thr Tyr Arg Tyr Asn Phe Ile Asn Thr Pro Phe Tyr Ala
 100 105 110
 Lys Gly Lys Leu Gly Ile Ala Lys Thr Lys Val Asp Val Thr Ser Arg
 115 120 125
 Asn Ala Thr Thr Tyr Ser Asn Lys Ser Asp Lys Thr Ser Leu Ala Gly
 130 135 140
 Gly Val Gly Val Gly Phe Lys Pro Leu Ala Asn Val Gly Val Glu Ala
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<220>
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<223> Description of Artificial Sequence: DNA fragment

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aagaacaccg cctacggaat

80
